GT-P3100_REV0.6

2012.02.14

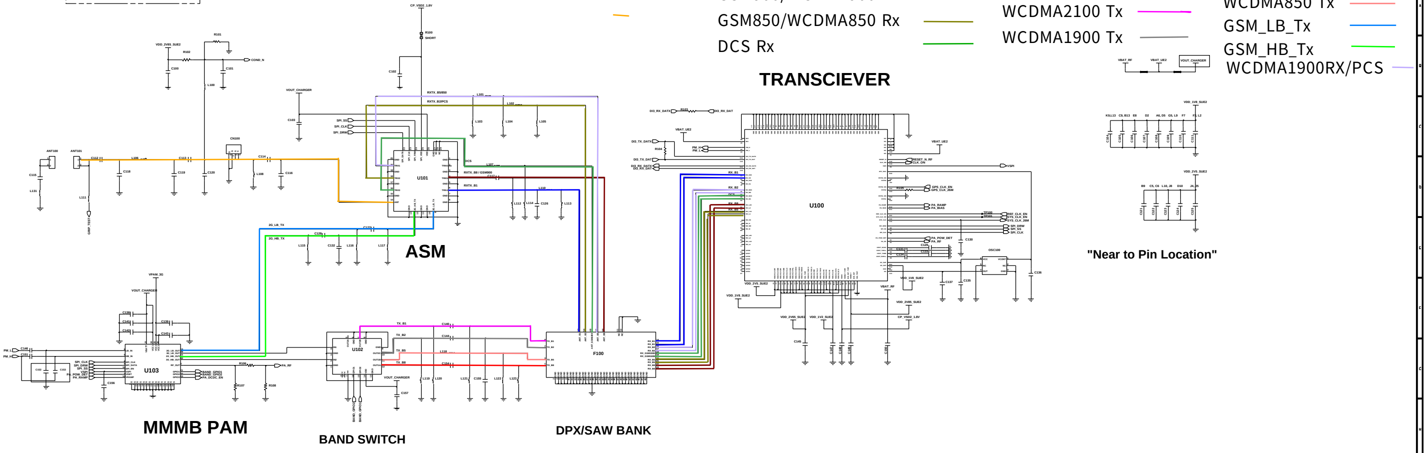
sheet01 : 2.5G RF, TRANSCEIVER, 3G RF
sheet02 : GPS, BT/WIFI
sheet03 : PMB9811 CP, DDR SDRAM, SIM
sheet04 : AUDIO part
sheet05 : IF CON
sheet06 : OMAP4430 AP, MOVINAND
sheet07 : AP PMIC, CHARGER, BAT CON
sheet08 : LCD Part, IRDA & KEY
sheet09 : 3M CAM & TSP

Engineer
Drawn by
R&D CHK
DOC CTRL CHK
MFG ENGR CHK
QA CHK
Changed by
Date Changed
TITLE
GT-P6200_MAIN_REV0.9
Size A2
REV
Drawing Number
Sheet

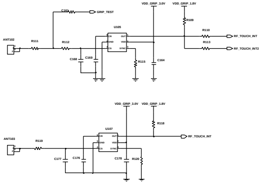
SAMSUNG CONFIDENTIAL
THIS DOCUMENT CONTAINS CONFIDENTIAL
PROPRIETARY INFORMATION THAT IS
SAMSUNG ELECTRONICS CO'S PROPERTY.
DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS
EXCEPT AS AUTHORIZED BY SAMSUNG.

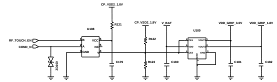
RF_PART

Ant	🟧
GSM900/WCDMA900 Rx	🟫
GSM850/WCDMA850 Rx	🟨
DCS Rx	🟩
WCDMA2100 Rx	🟦
WCDMA2100 Tx	🟪
WCDMA1900 Tx	⬜
WCDMA900 Tx	🟥
WCDMA850 Tx	🟥
GSM_LB_Tx	🟦
GSM_HB_Tx	🟩
WCDMA1900RX/PCS	🟪

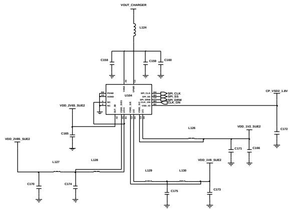

TRANSCIEVER
U100
ASM
U101
MMMB PAM
U103
BAND SWITCH
U102
DPX/SAW BANK
F100
"Near to Pin Location"
ANT100
ANT101
CN100
OSC100
2G_LB_TX
2G_HB_TX
RXTX_B5/850
RXTX_B2/PCS
RXTX_B8 / GSM900
RXTX_B1
TX_B1
TX_B2
TX_B5
TX_B8
VBAT_RF
VBAT_UE2
VOUT_CHARGER
VPAM_3G
CP_VSD2_1.8V
VDD_2V85_SUE2
VDD_1V8_SUE2
VDD_1V2_SUE2
GRIP_TEST
COND_N
SPI_SS
SPI_CLK
SPI_DRW
PA_RF
PA_RAMP
PA_BIAS
PA_POW_DET
BAND_GPIO1
BAND_GPIO2
PA_DCDC_EN
RESET_N_RF
CLK_ON
GPS_CLK_EN
GPS_CLK_26M
REF_CLK_EN
SYS_CLK_EN
SYS_CLK_26M
VSPI
DI3_RX_DATX
DI3_TX_DATX
PM_H
PM_L

GRIP SENSOR

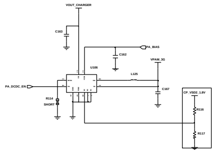

U105
U107
ANT102
ANT103
GRIP_TEST
RF_TOUCH_INT
RF_TOUCH_INT2
VDD_GRIP_3.0V
VDD_GRIP_1.8V


U108
U109
RF_TOUCH_EN
COND_N
CP_VSD2_1.8V
V_BAT
VDD_GRIP_3.0V
VDD_GRIP_1.8V

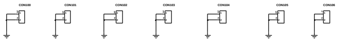
GRIP SENSOR LDO

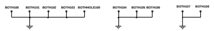

U104
VOUT_CHARGER
VDD_2V85_SUE2
VDD_1V2_SUE2
VDD_1V8_SUE2
CP_VSD2_1.8V
SPI_CLK
SPI_SS
SPI_DRW
CLK_ON

TRANSCIEVER DCDC


U106
VOUT_CHARGER
PA_BIAS
VPAM_3G
PA_DCDC_EN
CP_VSD2_1.8V
SHORT

PAM DCDC


CON100
CON101
CON102
CON103
CON104
CON105
CON106

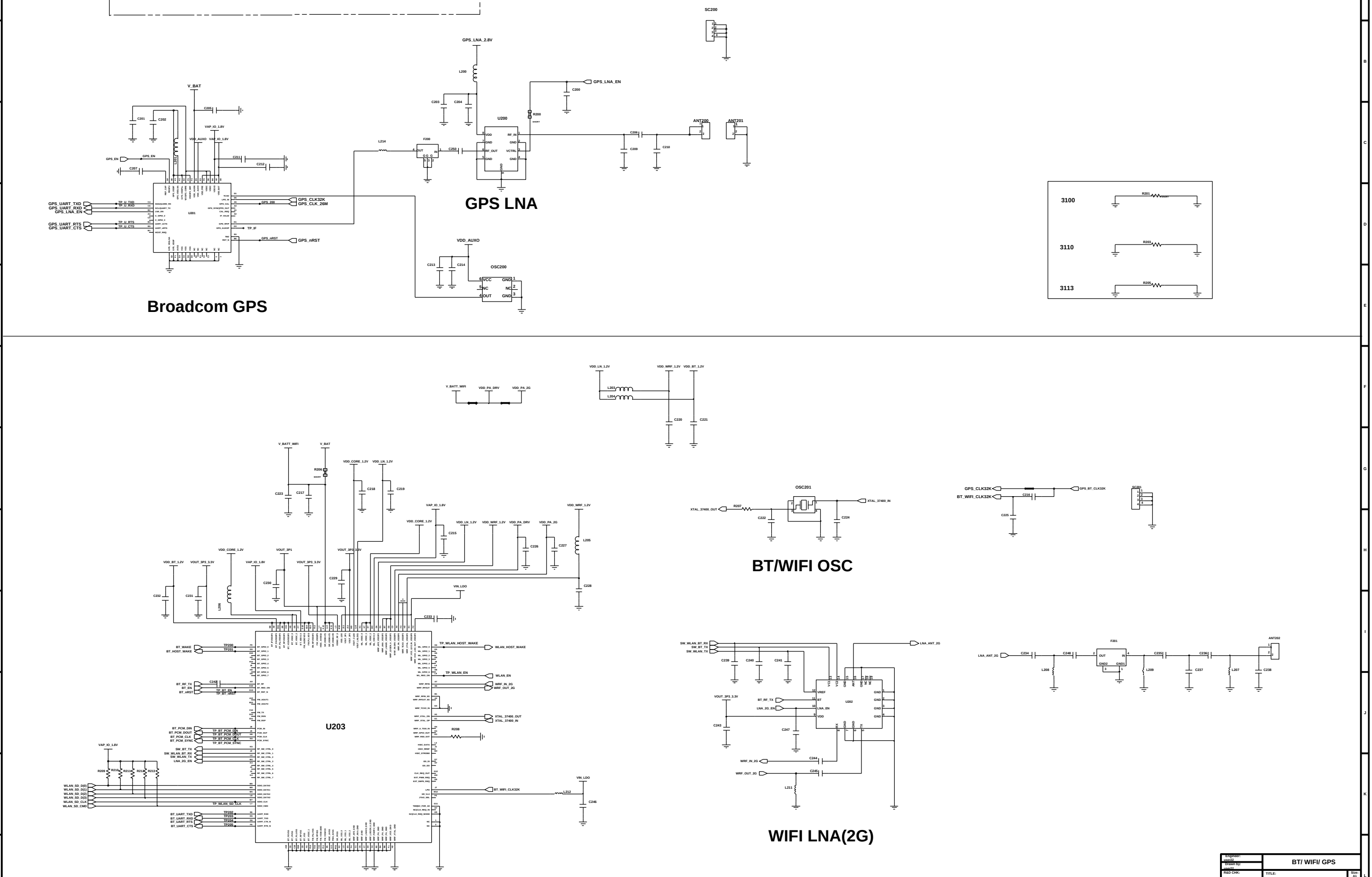

BOTH100
BOTH101
BOTH102
BOTH103
BOTHHOLE100
BOTH104
BOTH105
BOTH106
BOTH107
BOTH108

BOTH

SAMSUNG
ELECTRONICS
TITLE :
GT-P6200_MAIN_REV0.9

SAMSUNG CONFIDENTIAL
THIS DOCUMENT CONTAINS CONFIDENTIAL
PROPRIETARY INFORMATION THAT IS
SAMSUNG ELECTRONICS CO'S PROPERTY.
DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS
EXCEPT AS AUTHORIZED BY SAMSUNG.

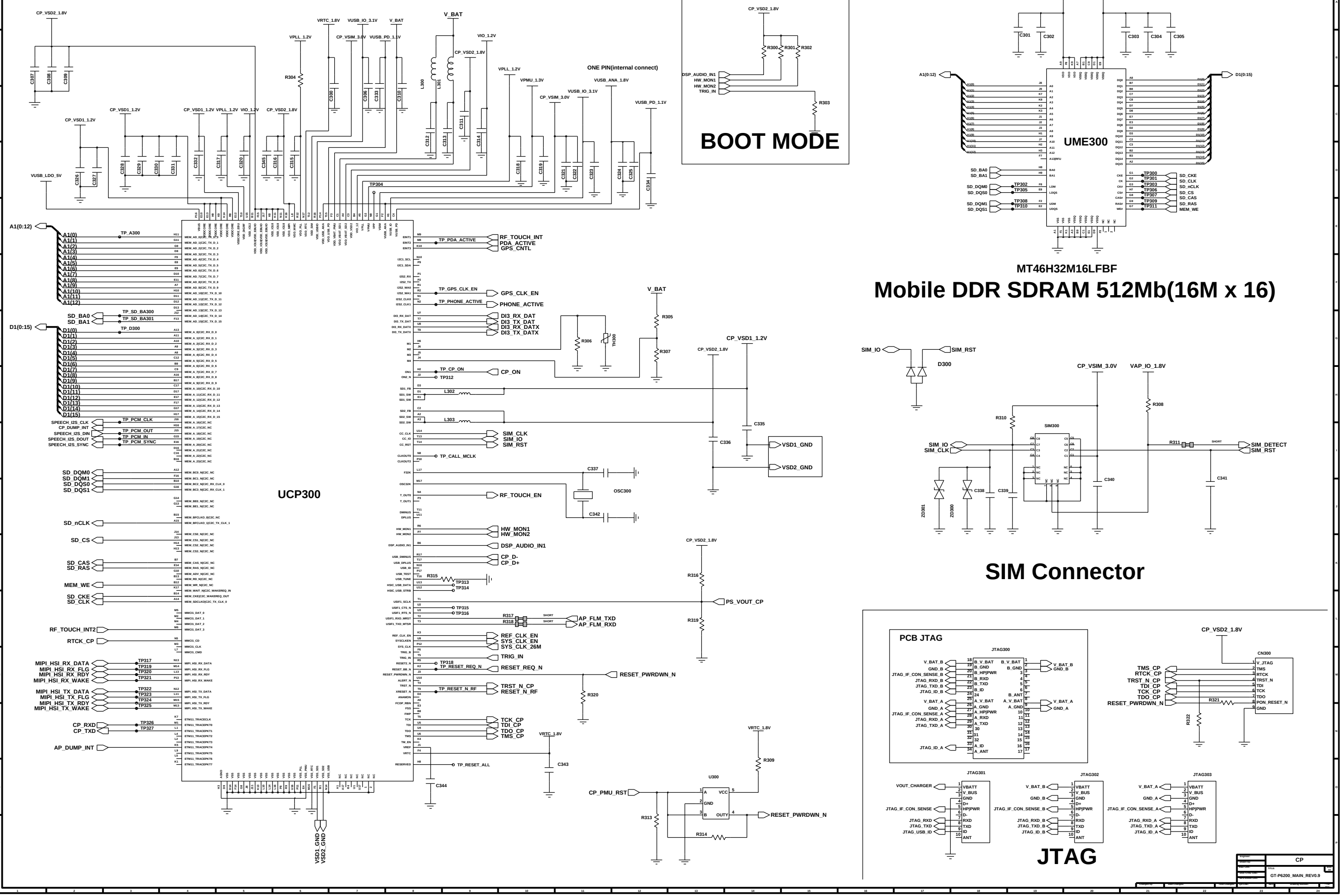
CONNECTIVITY_PART


GPS LNA
Broadcom GPS
BT/WIFI OSC
WIFI LNA(2G)
U201
U200
U203
U202
OSC200
OSC201
SC200
SC201
ANT200
ANT201
ANT202
F200
F201
GPS_LNA_2.8V
GPS_LNA_EN
V_BAT
VDD_AUXO
VAP_IO_1.8V
GPS_EN
GPS_UART_TXD
GPS_UART_RXD
GPS_LNA_EN
GPS_UART_RTS
GPS_UART_CTS
GPS_CLK32K
GPS_CLK_26M
GPS_nRST
TP_IF
3100
3110
3113
R201
R203
R205
V_BATT_WIFI
VDD_PA_DRV
VDD_PA_2G
VDD_LN_1.2V
VDD_WRF_1.2V
VDD_BT_1.2V
VDD_CORE_1.2V
VOUT_3P3_3.3V
VOUT_3P1
VIN_LDO
XTAL_37400_OUT
XTAL_37400_IN
GPS_CLK32K
BT_WIFI_CLK32K
GPS_BT_CLK32K
BT_WAKE
BT_HOST_WAKE
BT_RF_TX
BT_EN
BT_nRST
BT_PCM_DIN
BT_PCM_DOUT
BT_PCM_CLK
BT_PCM_SYNC
SW_BT_TX
SW_WLAN_BT_RX
SW_WLAN_TX
LNA_2G_EN
WLAN_SD_D(0)
WLAN_SD_D(1)
WLAN_SD_D(2)
WLAN_SD_D(3)
WLAN_SD_CLK
WLAN_SD_CMD
BT_UART_TXD
BT_UART_RXD
BT_UART_RTS
BT_UART_CTS
WLAN_HOST_WAKE
WLAN_EN
WRF_IN_2G
WRF_OUT_2G
LNA_ANT_2G
VOUT_3P3_3.3V

Engineer: user22	BT/ WIFI/ GPS
Drawn by: user22	
R&D CHK:	TITLE:
DOC CTRL CHK:	GT-P7500_MAIN_REV0.2
MFG ENGR CHK:	Size: A1

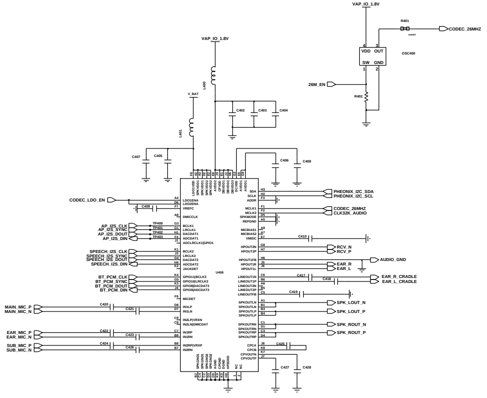
Changed by:	Date Changed:	Time Changed:	QA CHK:	REV	Drawing Number:	Page:
user22	Thursday, April 15, 2010	2:22:04 pm				2/11

SAMSUNG CONFIDENTIAL
THIS DOCUMENT CONTAINS CONFIDENTIAL
PROPRIETARY INFORMATION THAT IS
SAMSUNG ELECTRONICS CO'S PROPERTY.
DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS
EXCEPT AS AUTHORIZED BY SAMSUNG.

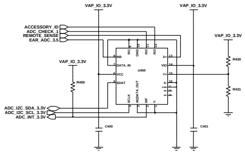

BOOT MODE
CP_VSD2_1.8V
R300
R301
R302
R303
DSP_AUDIO_IN1
HW_MON1
HW_MON2
TRIG_IN
UME300
MT46H32M16LFBF
Mobile DDR SDRAM 512Mb(16M x 16)
A1(0:12)
D1(0:15)
C301
C302
C303
C304
C305
SD_BA0
SD_BA1
SD_DQM0
SD_DQS0
SD_DQM1
SD_DQS1
SD_CKE
SD_CLK
SD_nCLK
SD_CS
SD_CAS
SD_RAS
MEM_WE
UCP300
V_BAT
VRTC_1.8V
VUSB_IO_3.1V
VPLL_1.2V
CP_VSIM_3.0V
VUSB_PD_1.1V
VIO_1.2V
CP_VSD1_1.2V
VUSB_LDO_5V
VPMU_1.3V
VUSB_ANA_1.8V
ONE PIN(internal connect)
L300
L301
L302
L303
TP_A300
TP_D300
TP_SD_BA300
TP_SD_BA301
SPEECH_I2S_CLK
CP_DUMP_INT
SPEECH_I2S_DIN
SPEECH_I2S_DOUT
SPEECH_I2S_SYNC
TP_PCM_CLK
TP_PCM_OUT
TP_PCM_IN
TP_PCM_SYNC
RF_TOUCH_INT
PDA_ACTIVE
GPS_CNTL
GPS_CLK_EN
PHONE_ACTIVE
DI3_RX_DAT
DI3_TX_DAT
DI3_RX_DATX
DI3_TX_DATX
R305
R306
R307
TH300
CP_ON
TP312
C335
C336
VSD1_GND
VSD2_GND
SIM_CLK
SIM_IO
SIM_RST
TP_CALL_MCLK
C337
C342
OSC300
RF_TOUCH_EN
HW_MON1
HW_MON2
DSP_AUDIO_IN1
CP_D-
CP_D+
R315
TP313
TP314
PS_VOUT_CP
R316
R319
TP315
TP316
R317
R318
SHORT
AP_FLM_TXD
AP_FLM_RXD
REF_CLK_EN
SYS_CLK_EN
SYS_CLK_26M
TRIG_IN
TP318
TP_RESET_REQ_N
RESET_REQ_N
RESET_PWRDWN_N
R320
TRST_N_CP
RESET_N_RF
TP_RESET_N_RF
TCK_CP
TDI_CP
TDO_CP
TMS_CP
C343
C344
TP_RESET_ALL
RF_TOUCH_INT2
RTCK_CP
MIPI_HSI_RX_DATA
MIPI_HSI_RX_FLG
MIPI_HSI_RX_RDY
MIPI_HSI_RX_WAKE
MIPI_HSI_TX_DATA
MIPI_HSI_TX_FLG
MIPI_HSI_TX_RDY
MIPI_HSI_TX_WAKE
TP317
TP319
TP320
TP321
TP322
TP323
TP324
TP325
CP_RXD
CP_TXD
TP326
TP327
AP_DUMP_INT
VSD1_GND
VSD2_GND
U300
CP_PMU_RST
R309
R313
R314
RESET_PWRDWN_N
SIM Connector
SIM300
D300
CP_VSIM_3.0V
VAP_IO_1.8V
R308
R310
R311
SIM_DETECT
SIM_RST
ZD300
ZD301
C338
C339
C340
C341
JTAG
PCB JTAG
JTAG300
JTAG301
JTAG302
JTAG303
CN300
V_BAT_B
GND_B
JTAG_IF_CON_SENSE_B
JTAG_RXD_B
JTAG_TXD_B
JTAG_ID_B
V_BAT_A
GND_A
JTAG_IF_CON_SENSE_A
JTAG_RXD_A
JTAG_TXD_A
JTAG_ID_A
VOUT_CHARGER
JTAG_IF_CON_SENSE
JTAG_RXD
JTAG_TXD
JTAG_USB_ID
TMS_CP
RTCK_CP
TRST_N_CP
TDI_CP
TCK_CP
TDO_CP
RESET_PWRDWN_N
R321
R322
CP
GT-P6200_MAIN_REV0.9

SAMSUNG CONFIDENTIAL
THIS DOCUMENT CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION THAT IS SAMSUNG ELECTRONICS CO'S PROPERTY. DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS EXCEPT AS AUTHORIZED BY SAMSUNG.

Audio PART


VAP_IO_1.8V
R401
CODEC_26MHZ
OSC400
VDD OUT SW GND
26M_EN
R402
L400
C402 C403 C404
V_BAT
L401
C407 C405 C406 C408
CODEC_LDO_EN
C409
AP_I2S_CLK
AP_I2S_SYNC
AP_I2S_DOUT
AP_I2S_DIN
TP400 TP401 TP402 TP403
SPEECH_I2S_CLK
SPEECH_I2S_SYNC
SPEECH_I2S_DOUT
SPEECH_I2S_DIN
BT_PCM_CLK
BT_PCM_SYNC
BT_PCM_DOUT
BT_PCM_DIN
MAIN_MIC_P
MAIN_MIC_N
EAR_MIC_P
EAR_MIC_N
SUB_MIC_P
SUB_MIC_N
C420 C421 C422 C423 C424 C426
U406
PHEONIX_I2C_SDA
PHEONIX_I2C_SCL
CODEC_26MHZ
CLK32K_AUDIO
C410
RCV_N
RCV_P
AUDIO_GND
EAR_R
EAR_L
C417 C418
EAR_R_CRADLE
EAR_L_CRADLE
C419
SPK_LOUT_N
SPK_LOUT_P
SPK_ROUT_N
SPK_ROUT_P
C425 C427 C428

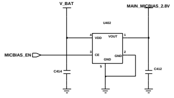
AUDIO CODEC


VAP_IO_3.3V
ACCESSORY_ID
ADC_CHECK_1
REMOTE_SENSE
EAR_ADC_3.5
R400
U400
ADC_I2C_SDA_3.3V
ADC_I2C_SCL_3.3V
ADC_INT_3.3V
C400 C401
R430 R431

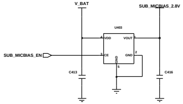
Y+	0	1
	3113	3110

ADC IC

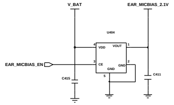
MIC BIAS LDO


V_BAT
MAIN_MICBIAS_2.8V
U402
VDD VOUT CE GND
MICBIAS_EN
C414 C412

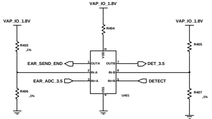
MAIN MICBIAS


V_BAT
SUB_MICBIAS_2.8V
U403
VDD VOUT CE GND
SUB_MICBIAS_EN
C413 C416

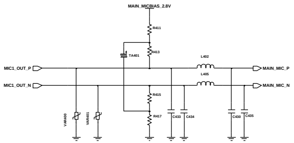
SUB MICBIAS


V_BAT
EAR_MICBIAS_2.1V
U404
VDD VOUT CE GND
EAR_MICBIAS_EN
C415 C411

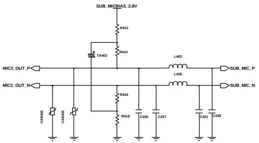
EAR MICBIAS


VAP_IO_1.8V
R404 R403 R405 R406 R407
EAR_SEND_END
EAR_ADC_3.5
DET_3.5
DETECT
U401

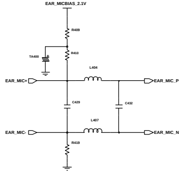
Comparator


MAIN_MICBIAS_2.8V
R411 R413 R415 R417
TA401
L402 L405
MIC1_OUT_P
MIC1_OUT_N
MAIN_MIC_P
MAIN_MIC_N
VAR400 VAR401
C433 C434 C430 C435

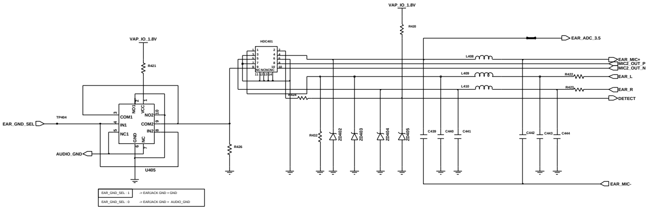
Main MIC


SUB_MICBIAS_2.8V
R412 R414 R416 R418
TA402
L403 L406
MIC2_OUT_P
MIC2_OUT_N
SUB_MIC_P
SUB_MIC_N
VAR402 VAR403
C436 C437 C431 C438

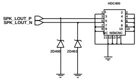
Sub MIC


EAR_MICBIAS_2.1V
R409 R410 R419
TA400
L404 L407
EAR_MIC+
EAR_MIC-
EAR_MIC_P
EAR_MIC_N
C429 C432

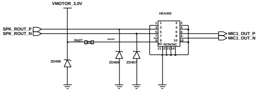
Ear MIC


VAP_IO_1.8V
R421
EAR_GND_SEL
TP404
COM1 IN1 NC1 NO1 VCC NO2 COM2 IN2 GND NC
AUDIO_GND
U405
R426
HDC401
R420
EAR_ADC_3.5
L408 L409 L410
EAR_MIC+
MIC2_OUT_P
MIC2_OUT_N
EAR_L
EAR_R
DETECT
R422 R423 R424 R432
ZD402 ZD403 ZD404 ZD405
C439 C440 C441 C442 C443 C444
EAR_MIC-
EAR_GND_SEL : 1 -> EARJACK GND = GND
EAR_GND_SEL : 0 -> EARJACK GND = AUDIO_GND

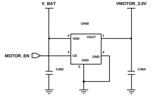
3.5PI EARJACK + SUB MIC


HDC400
SPK_LOUT_P
SPK_LOUT_N
ZD400 ZD401

Left SPK conn


VMOTOR_3.0V
HEA400
SPK_ROUT_P
SPK_ROUT_N
R427
ZD408 ZD406 ZD407
MIC1_OUT_P
MIC1_OUT_N

Right SPK / MOT conn


V_BAT
VMOTOR_3.0V
U408
VDD VOUT CE GND
MOTOR_EN
C463 C464

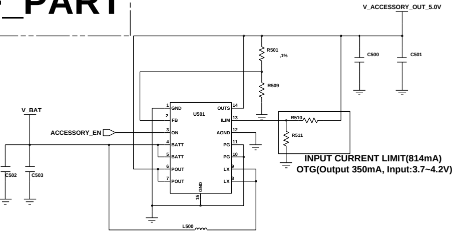
Motor LDO(3G)

Engineer
Drawn by:
R&D CHK:
DOC CTRL CHK:
MFG ENGR CHK:
QA CHK:
Changed by:
Date Changed:
Time Changed:

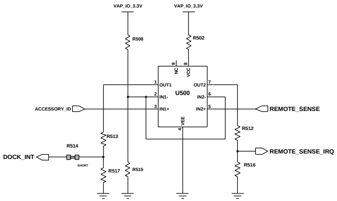
AUDIO & MOTOR

TITLE: GT-I9100G_MAIN_REV0.8
Size: A1
Drawing Number
6/8

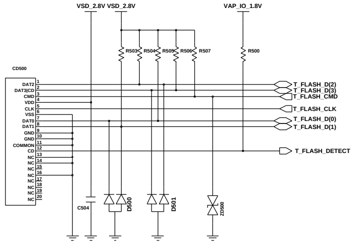
IF_PART


V_ACCESSORY_OUT_5.0V
V_BAT
ACCESSORY_EN
U501
GND
FB
ON
BATT
BATT
POUT
POUT
OUTS
ILIM
AGND
PG
PG
LX
LX
GND
R501
,1%
R509
R510
R511
C500
C501
C502
C503
L500
INPUT CURRENT LIMIT(814mA)
OTG(Output 350mA, Input:3.7~4.2V)

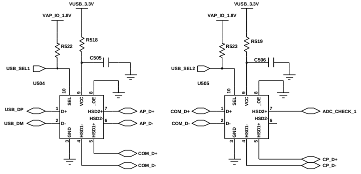
ACCESSORY_PWR


VAP_IO_3.3V
VAP_IO_3.3V
R508
R502
U500
NC
VCC
OUT1
IN1-
IN1+
OUT2
IN2-
IN2+
VEE
ACCESSORY_ID
REMOTE_SENSE
REMOTE_SENSE_IRQ
DOCK_INT
R514
SHORT
R513
R517
R515
R512
R516

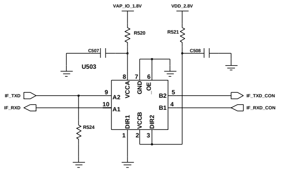
ACCESSORY_INT


VSD_2.8V VSD_2.8V
VAP_IO_1.8V
CD500
DAT2
DAT3|CD
CMD
VDD
CLK
VSS
DAT0
DAT1
GND
GND
COMMON
CD
NC
R503
R504
R505
R506
R507
R500
T_FLASH_D(2)
T_FLASH_D(3)
T_FLASH_CMD
T_FLASH_CLK
T_FLASH_D(0)
T_FLASH_D(1)
T_FLASH_DETECT
C504
D500
D501
ZD500

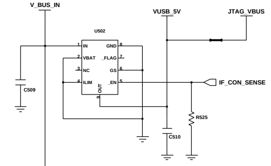
T-FLASH CONN

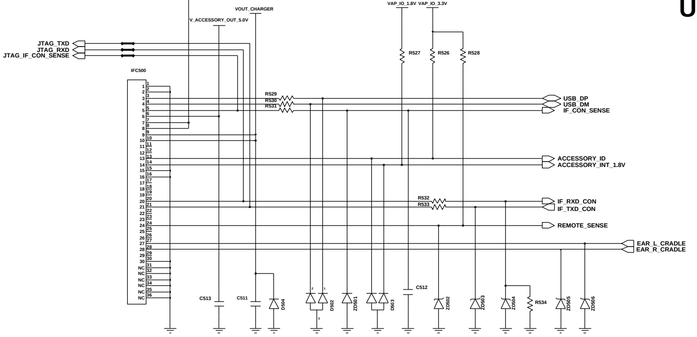

VUSB_3.3V
VAP_IO_1.8V
R522
R518
C505
USB_SEL1
U504
SEL
VCC
_OE
D+
D-
HSD2+
HSD2-
GND
HSD1-
HSD1+
USB_DP
USB_DM
AP_D+
AP_D-
COM_D+
COM_D-
VUSB_3.3V
VAP_IO_1.8V
R523
R519
C506
USB_SEL2
U505
COM_D+
COM_D-
ADC_CHECK_1
CP_D+
CP_D-

USB SWITCH IC

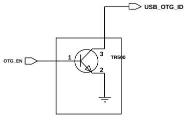

VAP_IO_1.8V
VDD_2.8V
R520
R521
C507
C508
U503
VCCA
GND
_OE
A2
A1
B2
B1
DIR1
VCCB
DIR2
IF_TXD
IF_RXD
IF_TXD_CON
IF_RXD_CON
R524

UART Level Shifter


V_BUS_IN
U502
IN
VBAT
NC
ILIM
GND
_FLAG
GS
_EN
OUT
VUSB_5V
JTAG_VBUS
IF_CON_SENSE
C509
C510
R525


VOUT_CHARGER
V_ACCESSORY_OUT_5.0V
VAP_IO_1.8V VAP_IO_3.3V
JTAG_TXD
JTAG_RXD
JTAG_IF_CON_SENSE
IFC500
R527
R526
R528
R529
R530
R531
USB_DP
USB_DM
IF_CON_SENSE
ACCESSORY_ID
ACCESSORY_INT_1.8V
R532
R533
IF_RXD_CON
IF_TXD_CON
REMOTE_SENSE
EAR_L_CRADLE
EAR_R_CRADLE
C513
C511
D504
D502
ZD501
D503
C512
ZD502
ZD503
ZD504
R534
ZD505
ZD506

30pin I/F CONNECTOR


USB_OTG_ID
OTG_EN
TR500
1
2
3

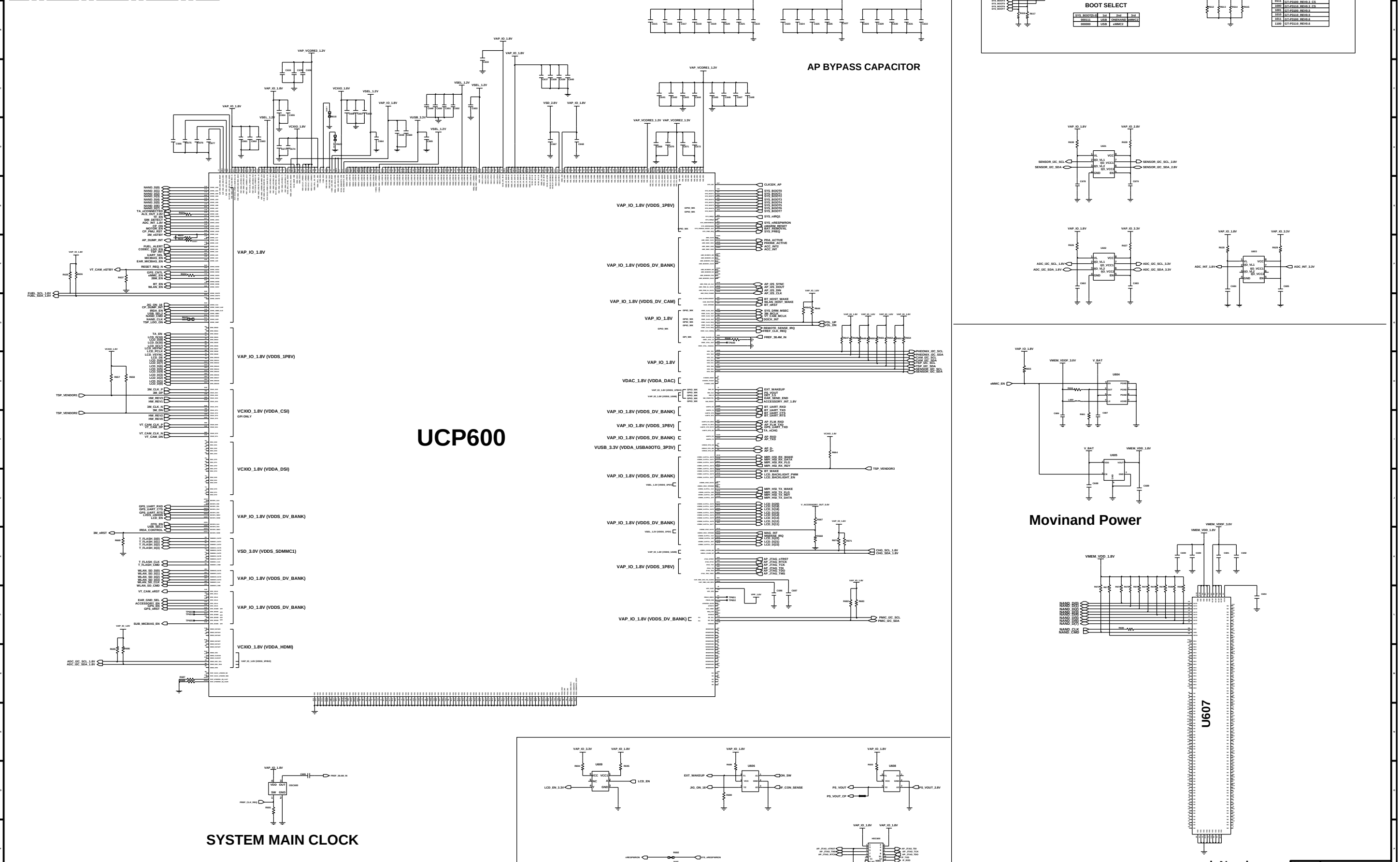
OTG Enable

Engineer	INTERFACE
Drawn by PSN	
R&D CHK	TITLE GT-P7500_MAIN_REV0.2 Size A2
DOC CTRL CHK	
MFG ENGR CHK	

Changed by	Date Changed 2009.05.13	Time Changed	QA CHK	REV	Drawing Number	5 / 14

SAMSUNG CONFIDENTIAL
THIS DOCUMENT CONTAINS CONFIDENTIAL
PROPRIETARY INFORMATION THAT IS
SAMSUNG ELECTRONICS CO'S PROPERTY.
DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS
EXCEPT AS AUTHORIZED BY SAMSUNG.

AP_PART


AP BYPASS CAPACITOR
UCP600
SYSTEM MAIN CLOCK
Movinand Power
movieNand
U607
BOOT SELECT
H/W REV
VAP_IO_1.8V
VCXIO_1.8V
VSEL_1.2V
VAP_VCORE1_1.2V
VAP_VCORE2_1.3V
VAP_VCORE3_1.2V
VSD_2.8V
VUSB_3.3V
VMEM_VDDF_3.0V
VMEM_VDD_1.8V
V_BAT
VAP_IO_1.8V (VDDS_1P8V)
VAP_IO_1.8V (VDDS_DV_BANK)
VAP_IO_1.8V (VDDS_DV_CAM)
VDAC_1.8V (VDDA_DAC)
VCXIO_1.8V (VDDA_CSI)
VCXIO_1.8V (VDDA_DSI)
VCXIO_1.8V (VDDA_HDMI)
VSD_3.0V (VDDS_SDMMC1)
VUSB_3.3V (VDDA_USBA0OTG_3P3V)
HW_REV0
HW_REV1
HW_REV2
HW_REV3

BOOT SELECT

SYS_BOOT[5:0]	1st	2nd	3rd
000111	USB	ONENAND	eMMC2
000000	USB	eMMC2	

H/W REV

3 2 1 0	HW REVISION
0000	Espresso_REV0.4
0001	GT-P3100_REV0.0
0010	GT-P3110_REV0.0
0011	GT-P3100_REV0.1
0100	GT-P3110_REV0.1
0101	GT-P3100_REV0.3
0110	GT-P3110_REV0.3
0111	GT-P3100_REV0.3_CS
1000	GT-P3110_REV0.3_CS
1001	GT-P3100_REV0.5
1010	GT-P3110_REV0.5
1011	GT-P3100_REV0.6
1100	GT-P3110_REV0.6

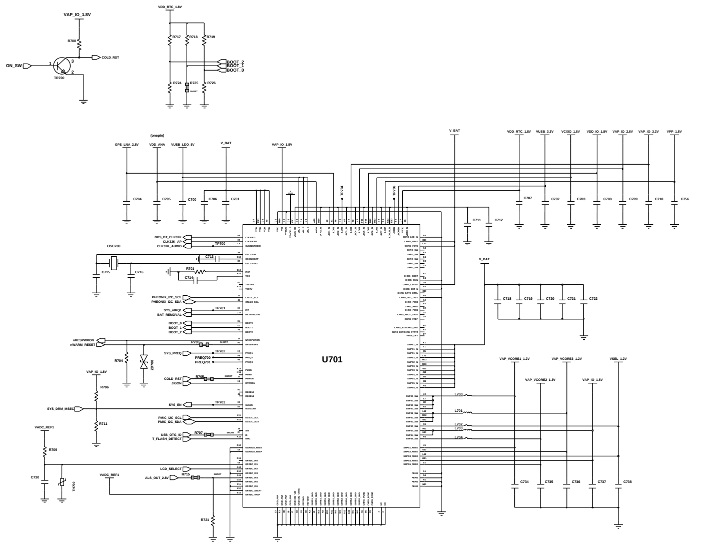
AP(T20)

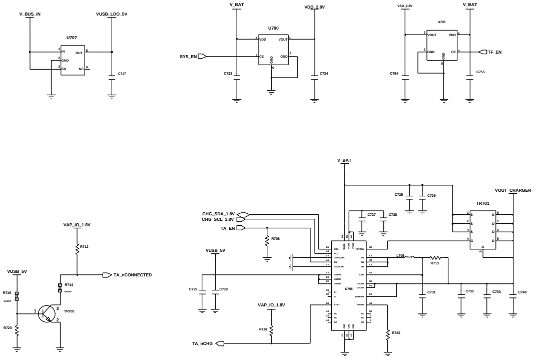
TITLE:
GT-P7500_MAIN_REV0.2

Size: A0

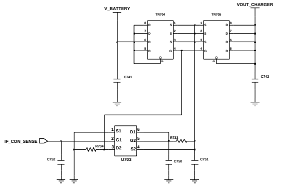
SAMSUNG CONFIDENTIAL
THIS DOCUMENT CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION THAT IS SAMSUNG ELECTRONICS CO'S PROPERTY. DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS EXCEPT AS AUTHORIZED BY SAMSUNG.

POWER_PART

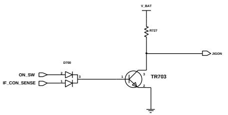

VAP_IO_1.8V
R700
ON_SW
TR700
COLD_RST
VDD_RTC_1.8V
R717
R718
R719
BOOT_2
BOOT_1
BOOT_0
R724
R725
R726
SHORT
GPS_LNA_2.8V
(onepin)
VDD_ANA
VUSB_LDO_5V
V_BAT
VDD_RTC_1.8V
VUSB_3.3V
VCXO_1.8V
VDD_IO_1.8V
VAP_IO_2.8V
VAP_IO_3.3V
VPP_1.8V
C704
C705
C700
C706
C701
TP706
TP705
C707
C702
C703
C708
C709
C710
C756
C711
C712
GPS_BT_CLK32K
CLK32K_AP
TP700
CLK32K_AUDIO
OSC700
C713
C715
C716
R701
C714
PHEONIX_I2C_SCL
PHEONIX_I2C_SDA
SYS_nIRQ1
TP701
BAT_REMOVAL
BOOT_0
BOOT_1
BOOT_2
nRESPWRON
nWARM_RESET
R703
SYS_PREQ
TP702
PREQ700
PREQ701
R704
ZD700
VAP_IO_1.8V
R706
COLD_RST
JIGON
R705
SYS_EN
TP703
SYS_DRM_MSEC
R711
PMIC_I2C_SCL
PMIC_I2C_SDA
VADC_REF1
R709
USB_OTG_ID
T_FLASH_DETECT
R707
LCD_SELECT
VADC_REF1
ALS_OUT_2.8V
R715
C730
TH700
R721
U701
V_BAT
C718
C719
C720
C721
C722
VAP_VCORE1_1.2V
VAP_VCORE3_1.2V
VSEL_1.2V
VAP_VCORE2_1.3V
VAP_IO_1.8V
L700
L701
L702
L703
L704
C734
C735
C736
C737
C738


V_BUS_IN
VUSB_LDO_5V
U707
IN
GND
EN
OUT
NC
C717
V_BAT
VDD_2.8V
U700
VDD
VOUT
CE
GND
SYS_EN
C723
C724
VSD_2.8V
V_BAT
U705
VOUT
VDD
GND
CE
TF_EN
C754
C755
V_BAT
VOUT_CHARGER
C725
C726
TR701
CHG_SDA_1.8V
CHG_SCL_1.8V
TA_EN
C727
C728
R708
VUSB_5V
L705
R713
C729
C739
U706
C731
C732
C733
C740
VAP_IO_1.8V
R712
TA_nCONNECTED
VUSB_5V
R714
SHORT
R716
SHORT
TR702
R723
VAP_IO_1.8V
R720
R722
TA_nCHG

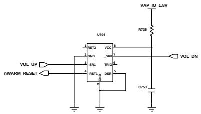
SWITCHING CHARGING BLOCK


V_BATTERY
TR704
TR705
VOUT_CHARGER
C741
C742
IF_CON_SENSE
R734
U703
S1
G1
D2
D1
G2
S2
R733
C752
C750
C751

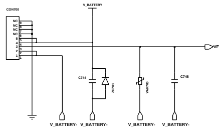
EXT_JIG_POWER_CONTROL


V_BAT
R727
JIGON
D700
ON_SW
IF_CON_SENSE
TR703

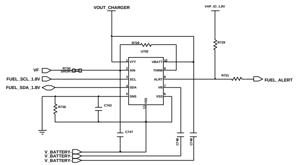
<Power On Block>


VAP_IO_1.8V
R735
U704
RST2
GND
SR1
RST1
VCC
_SR2
TRIG
DSR
VOL_UP
nWARM_RESET
VOL_DN
C753

RESET IC


CON700
NC
NC
NC
NC
V_BATTERY
VF
C744
ZD701
VAR700
C746
V_BATTERY-
V_BATTERY-
V_BATTERY-
V_BATTERY-

BATTERY CONTACT


VOUT_CHARGER
VAP_IO_1.8V
R728
U702
R729
VF
R730
SHORT
FUEL_SCL_1.8V
FUEL_SDA_1.8V
VTT
AIN
SCL
SDA
SNS
VBATT
THRM
ALRT
VB
VSS
R731
FUEL_ALERT
R736
C743
C747
C748
C749
V_BATTERY-
V_BATTERY-
V_BATTERY-

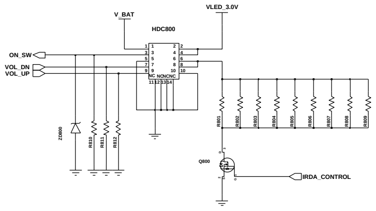
FUEL GUAGE

Engineer	POWER PART	
Drawn by:		
R&D CHK:	TITLE: GT-P7500_MAIN_REV0.2	Size: A3
DOC CTRL CHK:		
MFG ENGR CHK:		
QA CHK:	Drawing Number	7 / 14

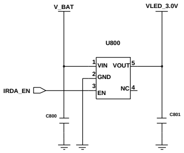
Changed by: Date Changed: Time Changed:

SAMSUNG CONFIDENTIAL
THIS DOCUMENT CONTAINS CONFIDENTIAL
PROPRIETARY INFORMATION THAT IS
SAMSUNG ELECTRONICS CO'S PROPERTY.
DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS
EXCEPT AS AUTHORIZED BY SAMSUNG.

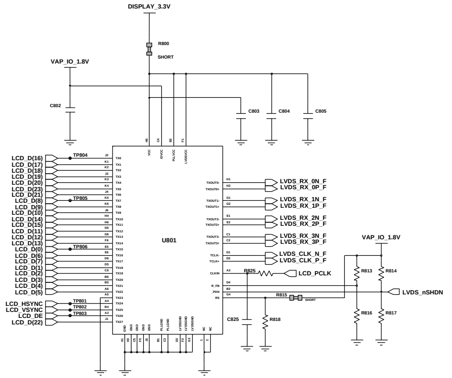
LCD_PART


V_BAT
VLED_3.0V
HDC800
ON_SW
VOL_DN
VOL_UP
ZD800
R810
R811
R812
R801
R802
R803
R804
R805
R806
R807
R808
R809
Q800
IRDA_CONTROL

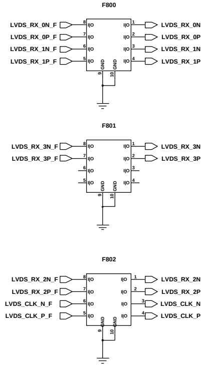
POWER & VOLUME KEY

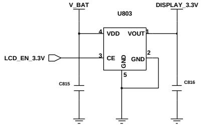

V_BAT
VLED_3.0V
U800
VIN
GND
EN
VOUT
NC
IRDA_EN
C800
C801

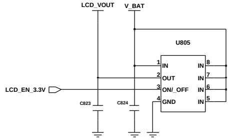
IRDA LDO(option)

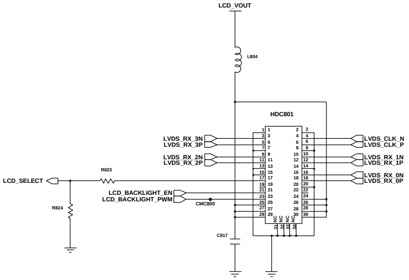

DISPLAY_3.3V
R800
SHORT
VAP_IO_1.8V
C802
C803
C804
C805
U801
TP804
TP805
TP806
TP801
TP802
TP803
LCD_D(16)
LCD_D(17)
LCD_D(18)
LCD_D(19)
LCD_D(20)
LCD_D(23)
LCD_D(21)
LCD_D(8)
LCD_D(9)
LCD_D(10)
LCD_D(14)
LCD_D(15)
LCD_D(11)
LCD_D(12)
LCD_D(13)
LCD_D(0)
LCD_D(6)
LCD_D(7)
LCD_D(1)
LCD_D(2)
LCD_D(3)
LCD_D(4)
LCD_D(5)
LCD_HSYNC
LCD_VSYNC
LCD_DE
LCD_D(22)
LVDS_RX_0N_F
LVDS_RX_0P_F
LVDS_RX_1N_F
LVDS_RX_1P_F
LVDS_RX_2N_F
LVDS_RX_2P_F
LVDS_RX_3N_F
LVDS_RX_3P_F
LVDS_CLK_N_F
LVDS_CLK_P_F
R825
LCD_PCLK
VAP_IO_1.8V
R813
R814
R815
SHORT
LVDS_nSHDN
R816
R817
R818
C825

LVDS Transmitter


F800
LVDS_RX_0N_F
LVDS_RX_0P_F
LVDS_RX_1N_F
LVDS_RX_1P_F
LVDS_RX_0N
LVDS_RX_0P
LVDS_RX_1N
LVDS_RX_1P
F801
LVDS_RX_3N_F
LVDS_RX_3P_F
LVDS_RX_3N
LVDS_RX_3P
F802
LVDS_RX_2N_F
LVDS_RX_2P_F
LVDS_CLK_N_F
LVDS_CLK_P_F
LVDS_RX_2N
LVDS_RX_2P
LVDS_CLK_N
LVDS_CLK_P
I|O
GND


V_BAT
DISPLAY_3.3V
U803
VDD
VOUT
CE
GND
LCD_EN_3.3V
C815
C816

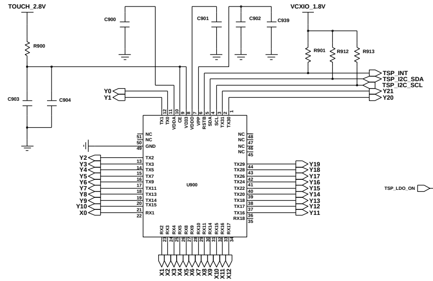

LCD_VOUT
V_BAT
U805
IN
OUT
ON/_OFF
GND
LCD_EN_3.3V
C823
C824


LCD_VOUT
L804
HDC801
LVDS_RX_3N
LVDS_RX_3P
LVDS_RX_2N
LVDS_RX_2P
LVDS_CLK_N
LVDS_CLK_P
LVDS_RX_1N
LVDS_RX_1P
LVDS_RX_0N
LVDS_RX_0P
LCD_SELECT
R823
R824
LCD_BACKLIGHT_EN
LCD_BACKLIGHT_PWM
CMC800
C817

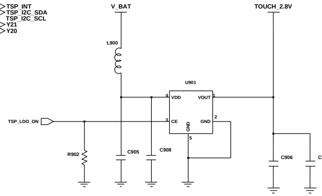
LCD PART
GT-P7500_MAIN_REV0.2

SAMSUNG CONFIDENTIAL
THIS DOCUMENT CONTAINS CONFIDENTIAL
PROPRIETARY INFORMATION THAT IS
SAMSUNG ELECTRONICS CO'S PROPERTY.
DO NOT DISCLOSE TO OR DUPLICATE FOR OTHERS
EXCEPT AS AUTHORIZED BY SAMSUNG.

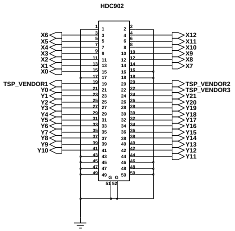
TSP PART


TOUCH_2.8V
VCXIO_1.8V
R900
C900
C901
C902
C939
C903
C904
R901
R912
R913
TSP_INT
TSP_I2C_SDA
TSP_I2C_SCL
Y0
Y1
Y21
Y20
U900
Y2 Y3 Y4 Y5 Y6 Y7 Y8 Y9 Y10 X0
Y19 Y18 Y17 Y16 Y15 Y14 Y13 Y12 Y11
X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 X12

TOUCH SENSOR IC

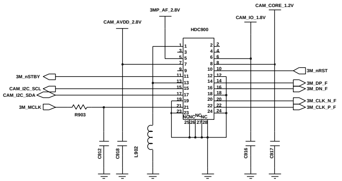

V_BAT
TOUCH_2.8V
L900
U901
VDD
VOUT
CE
GND
TSP_LDO_ON
R902
C905
C908
C906
C907

TOUCH LDO

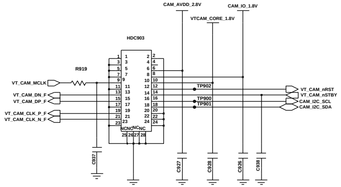

HDC902
X6 X5 X4 X3 X2 X1 X0
TSP_VENDOR1
Y0 Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8 Y9 Y10
X12 X11 X10 X9 X8 X7
TSP_VENDOR2
TSP_VENDOR3
Y21 Y20 Y19 Y18 Y17 Y16 Y15 Y14 Y13 Y12 Y11

50Pin TOUCH Con.

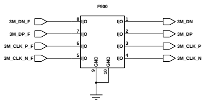
CAM PART

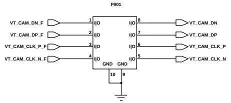

3MP_AF_2.8V
CAM_AVDD_2.8V
CAM_IO_1.8V
CAM_CORE_1.2V
HDC900
3M_nSTBY
CAM_I2C_SCL
CAM_I2C_SDA
3M_MCLK
R903
3M_nRST
3M_DP_F
3M_DN_F
3M_CLK_N_F
3M_CLK_P_F
C912
C918
L902
C916
C917

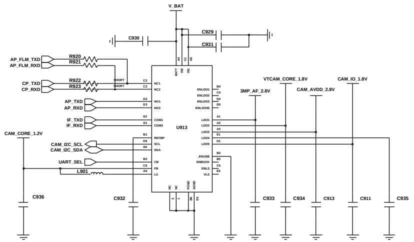
3M CAM


CAM_AVDD_2.8V
CAM_IO_1.8V
VTCAM_CORE_1.8V
HDC903
R919
VT_CAM_MCLK
VT_CAM_DN_F
VT_CAM_DP_F
VT_CAM_CLK_P_F
VT_CAM_CLK_N_F
TP902
TP900
TP901
VT_CAM_nRST
VT_CAM_nSTBY
CAM_I2C_SCL
CAM_I2C_SDA
C937
C927
C928
C926
C938

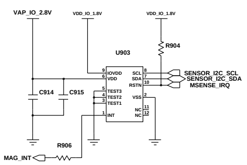
VT CAM


F900
3M_DN_F
3M_DP_F
3M_CLK_P_F
3M_CLK_N_F
3M_DN
3M_DP
3M_CLK_P
3M_CLK_N

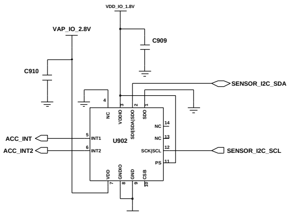

F901
VT_CAM_DN_F
VT_CAM_DP_F
VT_CAM_CLK_P_F
VT_CAM_CLK_N_F
VT_CAM_DN
VT_CAM_DP
VT_CAM_CLK_P
VT_CAM_CLK_N


V_BAT
C930
C929
C931
AP_FLM_TXD
AP_FLM_RXD
R920
R921
CP_TXD
CP_RXD
R922
R923
AP_TXD
AP_RXD
IF_TXD
IF_RXD
CAM_CORE_1.2V
CAM_I2C_SCL
CAM_I2C_SDA
UART_SEL
L901
U913
3MP_AF_2.8V
VTCAM_CORE_1.8V
CAM_AVDD_2.8V
CAM_IO_1.8V
C936
C932
C933
C934
C913
C911
C935

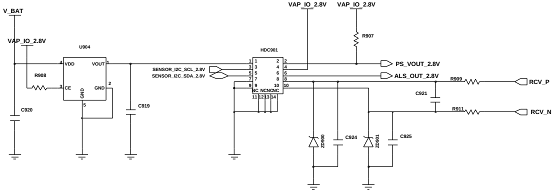
SENSOR_PART


VAP_IO_2.8V
VDD_IO_1.8V
VDD_IO_1.8V
R904
U903
SENSOR_I2C_SCL
SENSOR_I2C_SDA
MSENSE_IRQ
C914
C915
R906
MAG_INT

Magnetic Sensor


VDD_IO_1.8V
VAP_IO_2.8V
C909
C910
SENSOR_I2C_SDA
ACC_INT
ACC_INT2
U902
SENSOR_I2C_SCL

Accelerometer Sensor


V_BAT
VAP_IO_2.8V
VAP_IO_2.8V
VAP_IO_2.8V
U904
R908
C920
C919
R907
HDC901
SENSOR_I2C_SCL_2.8V
SENSOR_I2C_SDA_2.8V
PS_VOUT_2.8V
ALS_OUT_2.8V
R909
RCV_P
C921
R911
RCV_N
ZD900
C924
ZD901
C925

RCV & Proximity

Engineer	TSP, SENSOR
Drawn by	
R&D CHK	TITLE
DOC CTRL CHK	GT-P7500_MAIN_REV0.2
MFG ENGR CHK	Size A2
QA CHK	REV

Changed by user1

Drawing Number

Sheet 10 / 14